Approved For Release 2003/09/30 : CIA-RDP75B00285R099800140022-0 SECRET

COPY 1 OT

18 March 1974

MEMORANDUM FOR THE RECORD

SUBJECT: Trip Report 4-14 March 1974

The purpose of this trip was to conduct tests on a prototype polycarbonate helmet at Brooks AFB, Texas, Davis Monthan AFB, Arizona, and

2. Brooks AFB, 5-6 March 74

On 5 March 74 the undersigned was joined by

and met with Dr.'s William Robertson and Richardson, USAF School of Aviation Medicine, to establish protocol for chamber flight tests on the polycarbonate helmet. Purpose of the test was to determine the amount of residual carbon dioxide (C02) in the helmet. Ground level tests were conducted on 5 March. On 6 March additional testing was conducted at ground level, simulated altitudes of 8,000, 18,000, and 29,000 feet with no significant changes noted at the various altitudes. As there was no baseline established for standard pressure-suit helmets, a similar test was conducted on the S-1010 full-pressure suit helmet with almost identical results. Test reports will be forwarded to this office by Dr. Robertson as soon as they are available.

SECRET

USAF review(s) completed.

25X1

25X1

25X1

Approved For Release 2003/09/30: CIA-RDP75B00285R000300140022-d

25X1

25X1

25X1		
	Approved For Release 2003/09/30 : CIA-RDP75B00285R000300140022-0	
	S E C R E T	
	Page 2	25X1
	Tage 2	
	3. Davis Monthan AFB, 7-9 March 74	
	The personnel of the Physiological Support Division were shown and briefed on the prototype helmet. Comments were received regarding apparent ease of maintenance. Available U-2 pilots of the 349th SRS were given the opportunity to try on the helmet and relate their constructive criticisms. Most all agreed there was great potential for this new approach and concept.	
25X1	4. 11-13 March 1974	
25X1	was briefed on the prototype helmet and was favorably impressed with the new concept. Project pilots tried on the helmet with the pressure suit and evaluated it for comfort and visual field. The complete assembly was evaluated in the cockpit to determine if vision was adequate to see all required panels. Additionally, chamber flights were accomplished by	
25X1	and the undersigned to determine com- fort in the pressurized state. The concensus of opinions was that the new approach is good and would be well re- ceived. However, additional modification would have to	

5. The prototype helmet will be discussed and shown at the Life Support Conference in the Surgeon General's Office on 19-20 March 74.

be made before it would be an acceptable flight item.

6. The undersign for an orientation vis	ed also visited it	
	·	

25X1

CONCURRENCE AND/OR COMMENTS

25X1

25X1

25X1

SECRET Approved For Release 2003/09/30: CIA-RDP75B00285R000300140022-0

25Y	1
/J/	

Approved For Release 2003/09/30 : CIA-RDP75B00285R000300140022-0

SECRET

25X1 Page 3

25X1

AMS/OSA Distribution: 18 Mar 73

1 - AMS 2 - " 3 - RB

SECRET